IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A semiconductor device comprising:

a capacitor configured by a bottom electrode, a top electrode, and a dielectric disposed between the bottom electrode and the top electrode;

an insulating layer which surrounds the capacitor; [and]

a high-dielectric which is disposed between the dielectric and the insulating layer, and which entirely covers side wall portions of the dielectric[[,]]; and

a barrier layer disposed between the high-dielectric and the dielectric to prevent reaction of the high-dielectric and the dielectric,

wherein a dielectric constant of the high-dielectric is higher than a dielectric constant of the insulating layer.

- 2. (Original) The semiconductor device according to claim 1, wherein the dielectric constant of the high-dielectric is higher than a dielectric constant of the dielectric configuring the capacitor.
- 3. (Original) The semiconductor device according to claim 1, wherein a thickness of the high-dielectric in a direction perpendicular to side surfaces of the dielectric configuring the capacitor is equal to a distance from the bottom electrode to the top electrode.
- 4. (Original) The semiconductor device according to claim 1, wherein the insulating layer is silicon oxide.

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- 5. (Original) The semiconductor device according to claim 1, wherein the high-dielectric is configured by any one of SiN, TaO₂, TiO₂, A1₂O₃, ZrO₂, HfO₂, BST, PZT, and SBT.
- 6. (Original) The semiconductor device according to claim 1, wherein the high-dielectric covers the bottom electrode and the top electrode.
- 7. (Original) The semiconductor device according to claim 1, wherein the high-dielectric covers only side wall portions of the dielectric.
 - 8. (Canceled)
 - 9. (Currently Amended) A semiconductor device comprising:
- a first capacitor and a second capacitor each of which is configured by a bottom electrode, a top electrode, and a dielectric disposed between the bottom electrode and the top electrode;

an insulating layer which surrounds the first capacitor and the second capacitor; [and]
a high-dielectric which are disposed between the dielectric and the insulating layer,
and which entirely covers side wall portions of the dielectric[[,]]; and

a barrier layer disposed between the high-dielectric and the dielectric to prevent reaction of the high-dielectric and the dielectric,

wherein a dielectric constant of the high-dielectric is higher than a dielectric constant of the insulating layer.

- 10. (Original) The semiconductor device according to claim 9, wherein the insulating layer and the high-dielectric exist at a space between the first capacitor and the second capacitor.
- 11. (Original) The semiconductor device according to claim 9, wherein only the high-dielectric exists at a space between the first capacitor and the second capacitor.
 - 12. (Currently Amended) A semiconductor device comprising:

a capacitor configured by a bottom electrode, a top electrode, and a dielectric disposed between the bottom electrode and the top electrode;

a transistor which is connected to the bottom electrode;

an insulating layer which surrounds the capacitor; [[and]]

a high-dielectric which is disposed between the dielectric and the insulating layer, and which entirely covers side wall portions of the dielectric[[,]]; and

a barrier layer disposed between the high-dielectric and the dielectric to prevent reaction of the high-dielectric and the dielectric,

wherein a dielectric constant of the high-dielectric is higher than a dielectric constant of the insulating layer.

13. (Withdrawn) A manufacturing method for a semiconductor device, comprising: forming a first conductive material;

forming a dielectric on the first conductive material;

forming a second conductive material on the dielectric;

forming a top electrode formed from the second conductive material by etching on the second conductive material and the dielectric;

forming a high-dielectric which entirely covers side surfaces of the dielectric, and which has a dielectric constant higher than that of an insulating layer;

forming a bottom electrode formed from the first conductive material by etching on the high-dielectric and the first conductive material; and

forming the insulating layer which covers the bottom electrode, the top electrode, and the high-dielectric.

- 14. (Withdrawn) The manufacturing method according to claim 13, wherein the high-dielectric and the first conductive material are etched by using a hard mask as a mask.
- 15. (Withdrawn) The manufacturing method according to claim 13, wherein, after the high-dielectric is etched, the first conductive material is etched by using a hard mask formed from the high-dielectric as a mask.
- 16. (Withdrawn) The manufacturing method according to claim 15, wherein an etching selectivity is controlled such that the high-dielectric does not exist at the top portion of the top electrode at a point in time when the etching on the first conductive material is completed.
- 17. (Withdrawn) The manufacturing method according to claim 13, wherein the high-dielectric is etched by etch back, and remains at only the side wall portions of the dielectric.

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18. (Withdrawn) The manufacturing method according to claim 17, wherein, after the high-dielectric is etched, the first conductive material is etched by using a hard mask as a mask.